

Name: Answer Key Date: _____ Period: _____

Operations with Integers Quiz

Simplify. (4 points)	
$ \begin{aligned} & -5 - 4(3 + 2) \\ & -5 - 4(5) \\ & -5 - 20 \\ & \boxed{-25} \end{aligned} $	$ \begin{aligned} & -(36 \div 2^2)^2 - 48 \div (-4)^2 \\ & -(36 \div 4)^2 - 48 \div 16 \\ & -(9)^2 - 3 \\ & -81 - 3 \\ & \boxed{-84} \end{aligned} $

Evaluate. (6 points)		
$c = 2 \quad d = -4$ $ \begin{aligned} & -cd^2 + cd \\ & -2[(-4)^2] + 2(-4) \\ & -2(16) + (-8) \\ & -32 - 8 \\ & \boxed{-40} \end{aligned} $	$p = -3 \quad q = -2$ $ \begin{aligned} & 4p^2 + 7q^3 \\ & 4(9) + 7(-8) \\ & 36 + (-56) \\ & \boxed{-20} \end{aligned} $	$a = -2 \quad b = 2$ $ \begin{aligned} & \frac{4a+b}{b} + b^2 \\ & \frac{4(-2)+2}{2} + 2^2 \\ & \frac{-8+2}{2} + 4 \\ & \frac{-6}{2} + 4 \quad \overset{-3+4}{\boxed{1}} \end{aligned} $

Simplify. (4 points)	
$ \begin{aligned} & -5 \begin{bmatrix} 0 & -2 & 5 \end{bmatrix} + \begin{bmatrix} 2 & 0 & 2 \end{bmatrix} \\ & \cancel{[-10 \ 10 \ -25]} \\ & \boxed{[-10 \ 10 \ -35]} \end{aligned} $	$ \begin{aligned} & \begin{bmatrix} 5 & 3 \\ 5 & 1 \end{bmatrix} - \begin{bmatrix} -6 & 0 \\ 1 & -4 \end{bmatrix} - \begin{bmatrix} 5 & 4 \\ -2 & -6 \end{bmatrix} \\ & \cancel{\begin{bmatrix} 11 & 7 \\ 4 & -3 \end{bmatrix}} \quad \boxed{\begin{bmatrix} 6 & -1 \\ 6 & 11 \end{bmatrix}} \end{aligned} $